

AMENDMENT

Amendments to the Claims

1. (currently amended) A surgical instrument for implanting an anastomotic ring device, comprising:

an actuating member formed of a plurality of proximal leaves and a plurality of distal leaves which each leaf outwardly actuate by a cantilevered, hinged relationship to a central portion of the actuating member,

configured to receive an anastomotic ring and moveable between a cylindrical, unactuated position and a hollow rivet forming shape in response to a compressive actuating force;

a handle including an actuation mechanism for producing the compressive actuating force; and

an elongate cannula connecting the handle to the actuating member and operably configured to position the distal leaves on a distal side of an anastomotic opening and to position the proximal leaves on a proximal side of the anastomotic opening, and configured to transfer the compressive actuating force from the handle to the actuating member wherein the handle is further operably configured to produce the compressive actuating force by producing a proximally directed longitudinal motion and a distally directed longitudinal motion, the elongate cannula operably configured to separately transfer the proximally and distally directed longitudinal motions respectively to distal and proximal portions of the actuating member to pivot corresponding distal and proximal leaves toward each other to actuate the anastomotic ring device from a cylinder shape to a hollow rivet shape.
2. (cancelled)
3. (currently amended) The surgical instrument of claim[[2]] 1, wherein the elongate cannula comprises a first tube connected to the proximal portion of the actuating member and a second tube slidably received in the tube and connected to the distal portion of the actuating member.

4. (original) The surgical instrument of claim 3, wherein the elongate cannula further comprises a third tube interposed between the first and second tubes and distally engaged to a central portion of the actuating member.
5. (original) The surgical instrument of claim 1, further comprising a piercing tip distally coupled to the actuating member.
6. (original) The surgical instrument of claim 5, wherein the piercing tip comprises an enterotomy creation tip.
7. (currently amended) The surgical instrument of claim 6, wherein the piercing tip comprises a veress needle having a syringe knife tip within which a ball translates and spingedly withdraws into the veress needle, to expose piercing surfaces.
8. (currently amended) The surgical instrument of claim 1, further comprising an electrical illumination source and control operably connected proximate to the distal portion of the actuating member.
9. (original) The surgical instrument of claim 8, wherein the actuating member comprises a light transmissive material.
10. (original) The surgical instrument of claim 8, wherein the actuating member comprises an electroluminescent material.
11. (original) The surgical instrument of claim 1, further comprising a pneumatic conduit communicating between the distal tip and the handle for inflating a body lumen.
12. (canceled)

13. (currently amended) A surgical instrument, comprising:
a cannula;
an actuating member distally and laterally presented on the cannula for receiving a generally cylindrical anastomosis ring and formed of radially spaced proximal leaves and a plurality of distal leaves which each distal leaf outwardly actuates by a cantilevered, hinged relationship to a central portion of the actuating member; [[and]]
a first control operative to compress a longitudinal end of the actuating member toward a center of the actuating member to actuate a respective portion of the received anastomosis ring; and
a second control operative to compress another longitudinal end of the actuating member toward the center of the actuating member to actuate the other respective portion of the received anastomosis ring forming a hollow rivet shape.

14. (canceled)

15. (original) The surgical instrument of claim 13, further comprising a stationary member mechanically grounding the center of the actuating member relative to the first cannula.

16. (original) The surgical instrument of claim 13, further comprising an enterotomy creation tip distally coupled to the cannula.

17. (currently amended) The surgical instrument of claim [[14]] 16, wherein the enterotomy creation tip comprises a veress needle.

18. (original) The surgical instrument of claim 13, further comprising an insufflation conduit distally communicating through the cannula.

19. (original) The surgical instrument of claim 13, further comprising a veress needle which is in pneumatic communication with the insufflation conduit.

20. (original) The surgical instrument of claim 13, further comprising an illuminator connected to the cannula.

21. (new) A surgical instrument, comprising:

an anastomotic device, comprising a woven tube of wire having outer loops or ends which thermally deform and evert when inserted into walls of two adjacent lumens at a luminal interface of an anastomotic site, the ends of the tube everting to form petals in a manner which holds the luminal interface of the anastomotic site into apposition; an actuating member formed of proximal and distal leaves which outwardly actuate by a cantilevered, hinged relationship to a central portion of the actuating member, configured to receive the anastomotic device and moveable between a cylindrical, unactuated position and a hollow rivet forming shape in response to a compressive actuating force;

a handle including an actuation mechanism for producing the compressive actuating force; and

an elongate cannula connecting the handle to the actuating member and operably configured to position the distal leaves on a distal side of an anastomotic opening and to position the proximal leaves on a proximal side of the anastomotic opening, and configured to transfer the compressive actuating force from the handle to the actuating member wherein the handle is further operably configured to produce the compressive actuating force by producing a proximally directed longitudinal motion and a distally directed longitudinal motion, the elongate cannula operably configured to separately transfer the proximally and distally directed longitudinal motions respectively to distal and proximal portions of the actuating member to pivot corresponding distal and proximal leaves toward each other to actuate the anastomotic ring device from a cylinder shape to a hollow rivet shape.